

Title (en)

DATA PLANE LEARNING OF BI-DIRECTIONAL SERVICE CHAINS

Title (de)

DATENEbenenlernvorgang für bidirektionale Serviceketten

Title (fr)

Apprentissage de plan de données de chaînes de service bidirectionnelles

Publication

EP 3193477 B1 20180912 (EN)

Application

EP 17158232 A 20140505

Priority

- US 201313891245 A 20130510
- EP 14730300 A 20140505
- US 2014036789 W 20140505

Abstract (en)

[origin: US2014334488A1] Techniques are provided to decouple service chain structure from the underlying network forwarding state and allow for data plane learning of service chain forwarding requirements and any association between services function state requirements and the forward and reverse forwarding paths for a service chain. In a network comprising a plurality of network nodes each configured to apply a service function to traffic that passes through the respective network node, a packet is received at a network node. When the network node determines that the service function it applies is stateful, it updates context information in a network service header of the packet to indicate that the service function applied at the network node is stateful and that traffic for a reverse path matching the classification criteria is to be returned to the network node.

IPC 8 full level

H04L 12/24 (2006.01)

CPC (source: EP US)

H04L 41/0893 (2013.01 - US); **H04L 41/342** (2022.05 - EP); **H04L 45/306** (2013.01 - EP US); **H04L 47/2441** (2013.01 - US);
H04L 69/22 (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

US 2014334488 A1 20141113; **US 9246799 B2 20160126**; CN 105191215 A 20151223; CN 105191215 B 20190101; EP 2995042 A1 20160316;
EP 2995042 B1 20170322; EP 3193477 A1 20170719; EP 3193477 B1 20180912; US 10158561 B2 20181218; US 2016099867 A1 20160407;
WO 2014182615 A1 20141113

DOCDB simple family (application)

US 201313891245 A 20130510; CN 201480026180 A 20140505; EP 14730300 A 20140505; EP 17158232 A 20140505;
US 2014036789 W 20140505; US 201514966737 A 20151211